

CLAIMS

What is claimed is:

- 1 1. A liquid masking composition comprising:
2 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
3 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
4 ratio of between about 0.5 to 1 to about 5 to 1;
5 from 0 to about 8 percent by weight of at least one surfactant;
6 from 0 to less than 16 percent by weight of a saccharide; and
7 sufficient water to total 100 percent by weight.
- 1 2. A liquid masking composition, as set forth in claim 1, wherein said
2 plasticizer is selected from the group consisting of polyhydroxyalcohols.
- 1 3. A liquid masking composition, as set forth in claim 2, wherein said
2 plasticizer is glycerine.
- 1 4. A liquid masking composition, as set forth in claim 1, wherein said
2 polyvinylpyrrolidone has a molecular weight distribution between about
3 200,000 and about 500,000.
- 1 5. A liquid masking composition, as set forth in claim 4, wherein said liquid
2 masking composition comprises from about 3 to about 10 percent by weight
3 polyvinylpyrrolidone.
- 4 6. A liquid masking composition, as set forth in claim 1, wherein said
5 surfactant is selected from the group consisting of nonionic, amphoteric and
6 anionic surfactants having a hydrophilic-lipophilic value of about 9 to 14.

- 1 7. A liquid masking composition, as set forth in claim 6, wherein said
2 surfactant is selected from the group consisting of amphoteric surfactants,
3 silicone surfactants, and mixtures thereof.
- 1 8. A liquid masking composition, as set forth in claim 1, further comprising at
2 least one thickening agent selected from the group consisting of
3 polyacrylates, magnesium silicates, polyvinyl alcohol, fumed silicas, guar
4 gum, and hydroxymethylcellulose.
- 1 9. A liquid masking composition, as set forth in claim 8, wherein said at least
2 one thickening agent is present in an amount up to about 8 percent by
3 weight with the proviso that polyvinyl alcohol may be present in an amount
4 up to 2.4 percent by weight.
- 1 10. A liquid masking composition, as set forth in claim 9, wherein said at least
2 one thickening agent is a polyacrylate.
- 1 11. A liquid masking composition, as set forth in claim 1, wherein said
2 plasticizer is glycerine, said surfactant is at least one compound selected
3 from the group consisting of silicone surfactants, amphoteric surfactants,
4 and mixtures thereof, and additionally comprising a polyacrylate thickener
5 in an amount up to about 2 percent by weight.
- 1 12. A method for protecting selected surfaces from paint in painting operations
2 comprising:
3 applying a liquid masking composition to selected surfaces of an
4 object where paint subsequently applied is not desired;
5 allowing said liquid masking composition to dry, forming a film;

6 painting said object, whereby surfaces carrying said film are
 7 protected from the application of paint; and
 8 removing said film, wherein said liquid masking composition
 9 comprises:
 10 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
 11 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
 12 ratio of between about 0.5 to 1 to about 5 to 1;
 13 from 0 to about 8 percent by weight of at least one surfactant;
 14 from 0 to less than 16 percent by weight of a saccharide; and
 15 sufficient water to total 100 percent by weight.

1 13. A method for protecting selected surfaces from paint, as set forth in claim
 2 12, wherein said plasticizer is selected from the group consisting of
 3 polyhydroxyalcohols.

1 14. A method for protecting selected surfaces from paint, as set forth in claim
 2 13, wherein said plasticizer is glycerine.

1 15. A method for protecting selected surfaces from paint, as set forth in claim
 2 12, wherein said surfactant is selected from the group consisting of
 3 nonionic, amphoteric and anionic surfactant having a hydrophilic-lipophilic
 4 value of about 9 to 14.

1 16. A method for protecting surfaces from paint, as set forth in claim 15,
 2 wherein said surfactant is selected from the group consisting of amphoteric
 3 surfactants, silicone surfactants, and mixtures thereof.

- 1 17. A method of protecting selected surfaces from paint, as set forth in claim
2 12, wherein the liquid masking composition further comprises at least one
3 thickening agent selected from the group consisting of polyacrylates,
4 magnesium silicates, polyvinyl alcohol, fumed silicas, guar gum, and
5 hydroxymethylcellulose.
- 1 18. A method for protecting selected surfaces from paint, as set forth in claim
2 17, wherein said at least one thickening agent is present in an amount up
3 to about 8 percent by weight, with the proviso that polyvinyl alcohol may
4 be present in an amount up to 2.4 percent by weight.
- 1 19. A method for protecting selected surfaces from paint, as set forth in claim
2 18, wherein said at least one thickening agent is a polyacrylate.
- 1 20. A method for protecting selected surfaces from paint, as set forth in claim
2 12, wherein said liquid masking composition further comprises:
3 from about 3 to about 10 percent by weight of said
4 polyvinylpyrrolidone;
5 from about 1 to about 10 percent by weight of glycerine;
6 from 0 to about 2 percent by weight of a polyacrylate thickening
7 agent;
8 from about 0.5 to about 2 percent by weight of an amphoteric
9 surfactant;
10 from about 0.1 to about 1 percent by weight of a silicone surfactant;
11 and
12 sufficient water to total 100 percent by weight.

- 1 21. A method for protecting selected surfaces of goods from the deposition of
2 dirt, oil, grease, air pollutants, acid rain, vehicle exhaust, soot, rubber or
3 asphalt pieces, road tar, or other contaminants, comprising:
4 applying a liquid masking composition to selected surfaces of a good
5 to be protected;
6 allowing said liquid masking composition to dry, forming a film;
7 exposing said object to potential contamination, whereby surfaces
8 carrying said film are protected from the deposition of dirt, oil, grease, air
9 pollutants, acid rain, vehicle exhaust, soot, rubber or asphalt pieces, road
10 tar, or other contaminants; and
11 removing said film,
12 wherein said liquid masking composition comprises:
13 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
14 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
15 ratio of between about 0.5 to 1 to about 5 to 1;
16 from 0 to about 8 percent by weight of at least one surfactant;
17 from 0 to less than 16 percent by weight of a saccharide; and
18 sufficient water to total 100 percent by weight.
- 1 22. The method for protecting surfaces of goods of claim 21, wherein said
2 plasticizer is selected from the group consisting of polyhydroxyalcohols.
- 1 23. The method for protecting surfaces of goods of claim 22, wherein said
2 plasticizer is glycerine.
- 1 24. The method of protecting surfaces of goods of claim 21, wherein said liquid
2 masking compound further comprises at least one thickening agent selected
3 from the group consisting of polyacrylates, magnesium silicates, polyvinyl
4 alcohol, fumed silicas, guar gum, and hydroxymethylcellulose.

- 1 25. The method for protecting surfaces of goods of claim 21, wherein said
2 surfactant is selected from the group consisting of nonionic, amphoteric and
3 anionic surfactant having a hydrophilic-lipophilic value of about 9 to 14.
- 1 26. The method for protecting surfaces of goods of claim 25, wherein said
2 surfactant is selected from the group consisting of amphoteric surfactants,
3 silicone surfactants and mixtures thereof.
- 1 27. The method for protecting surfaces of goods of claim 21, wherein said
2 liquid masking composition further comprises:
3 from about 3 to about 10 percent by weight of said
4 polyvinylpyrrolidone;
5 from about 1 to about 10 percent by weight of glycerine;
6 from 0 to about 2 percent by weight of a polyacrylate thickening
7 agent;
8 from about 0.5 to about 2 percent by weight of an amphoteric
9 surfactant;
10 from about 0.1 to about 1 percent by weight of a silicone surfactant;
11 and
12 sufficient water to total 100 percent by weight.
- 1 28. The method for protecting surfaces of goods of claim 21, wherein the goods
2 to be protected are motor vehicles.